

DoD RFID Policy Update

November 17, 2004









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(Supply Chain Integration)



Agenda

- RFID Vision
- RFID Policy
- Passive RFID Implementation Plan
- Benefits
- Next Steps

Facing new challenges...



- Rapidly moving force on a dynamic battlefield
- Demand for better information on assets
- Need for more effective management of inventory
- Improve business processes now
- Influence the direction and cost of technology development
- Drive the standards to work for us
- Facilitate the implementation of Unique Identification (UID)





The RFID Vision

Implement knowledge-enabled logistics through fully automated visibility and management of assets in support of the warfighter





An enabler to the Integrated DoD Supply Chain

Cases/Pallets are labeled with passive RFID tags. Cases are associated to pallet Cases/Pallets
are read as they
are received and
new shipments
are labeled.
Orders are

varified for

Cases/Pallets are associated with **Active RFID** to provide TAV.

Data is timely and accurate via network of linked readers allowing asset visibility along the entire supply chain

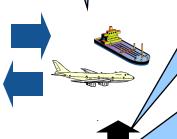
Manufacturers/
Suppliers

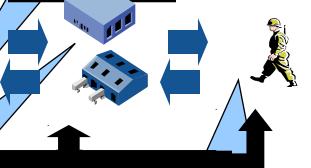
Distribution Centers/Depots/TD Cs Commerci al/Military Carriers TMO/Supply/ Theater

Customer









T rely and Accurate Data

When shipments are reconfigured a new RFID Tag is created for the pallet and associated with cases on that pallet

The cases/pallets are automatically received with few disputes and info is shared with the AISs.
Reconfigured shipments

Customers have visibility of requisitions and are confident in the status provided by the system



July 30, 2005 Policy

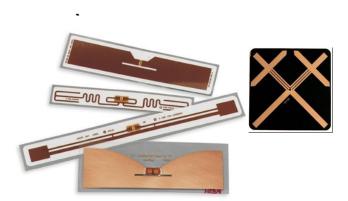
Active RFID - freight containers, air pallets

- Long range, large amount of data
- SAVI readers and tags
- DoD tag data formats



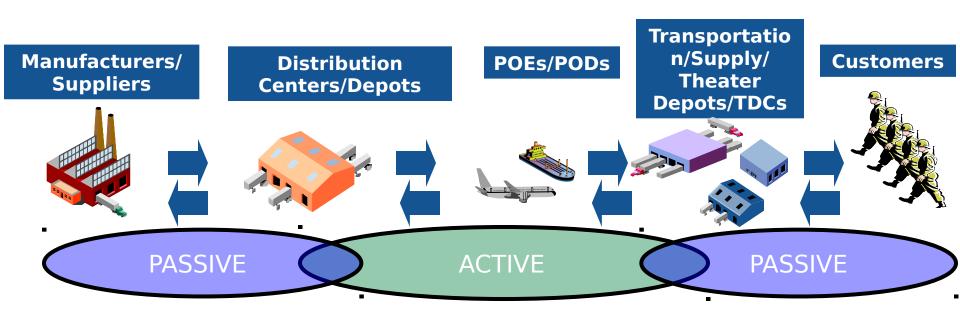
Passive RFID – case & pallet (all it item packaging (UID items)

- Short range, small amount of da
- EPC standard readers and tags
- EPC and DoD tag data formats





Complementary use across the logistics supply chain





istribution Center/Depot (Sustainment)

Overhead scanner read the passive RFID tag.

Containers, 463Ls, or pallets

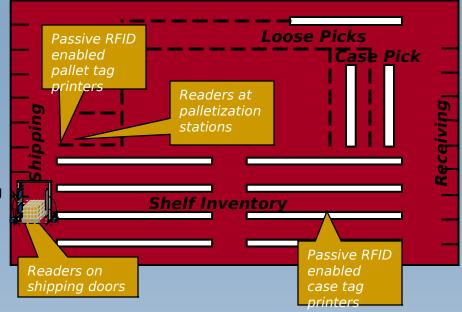
are shipped by reading the

RFID tag and the AIS is

updated.

- Loose/Broken picks are processed using a similar method.
- Full cases are directed via passive RFID and placed on the conveyer.

- 2 Cases are sorted according to the pallet indicated. Readers at palletization stations read the passive RFID as the cases are being palletized. Items/Cases are aggregated to the pallet.
- A passive RFID tag is printed and attached to the pallet. If the pallets are placed on a 463L or in a container, an active RFID tag is produced and attached.



An active RFID tag captures arrival at the gate.

- Full case picking tags are printed out with human readable information and barcode on the passive RFID tag.
- Shelf readers read individual units on the shelf and update inventory in real time. Replenishment is automatically initiated when shelf inventory reaches a target level.
- Item/Case/Pallet information is used for putaway. Similar logic is used for replenishment and moves.
- Items/Cases/Pallets are received by scanning the passive RFID tag and the AIS is updated.

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Implementation Dates

Active RFID - Operational; Implementation Continuing



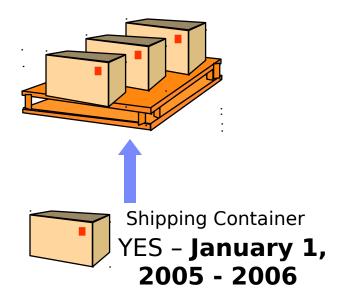
- Passive RFID
 - DoD Implementation underway now
 - Suppliers Effective Jan 2005 according to the



Palletized Unit Load Tag
YES - January 1, 2005 2006



Pallet tag





UID Item Unit

No^{Pac}**jånuary 1, 2005 -**

Y**≧300** ∫ anuary 1, 2007

*If the UID Packaging is also an External Container or a Shipping Container, it will have an



Implementation Plan considers commodities

Commencing January 1, 2005

- Class I Subclass –
 Packaged Operational
 Rations & Packaged Food
- Class II Clothing, Individual Equipment, Tools, & Administrative Supplies
- > Class VI Personal Demand Items
- > Class IX Repair Parts & Components

Commencing January 1, 2006

- Class I Subsistence & Gratuitous Health & Comfort Items
- > Class III Packaged Petroleum, Lubricants, Oils, Preservatives, Chemicals & Additives
- > Class IV Construction & Barrier Equipment
- > Class V Ammunition of all types
- > Class VII Major End Items
- > Class VIII Medical



Passive RFID Implementation Plan for

January 1, 2005

Classes of Supply:

II, VI, IX, I (PORs/MREs)

Level of Tagging:

 Shipping Containers, Palletized Unit

Loads, Exterior Containers

Ship to locations:

San Joaquin, Susquehanna

43,000 DoD

Manufacturers/Suppliers

DFAR - new contracts; renewels

Classes of Supply

Level of Tagging

Ship to Locations

January 1, 2007

Classes of Supply:

All Classes

Level of Tagging:

 Shipping Containers, Palletized Unit Loads, Exterior Containers, UID Item Unit Pack

Ship to locations: All Locations

Sanuary 1, 2006 Classes of Supply:

Begin All Classes

Level of Tagging:

Shipping Containers,
 Palletized Unit Loads,
 Exterior Containers

Ship to locations:

 Strategic CONUS DLA Depots, TRANSCOM Facilities & Service Maintenance Facilities



DFAR Clause Details

- Two Major Requirements for Suppliers
 - Passive Tagging at the case, pallet, UID item packaging level in accordance with the Implementation Plan
 - Advance Ship Notice (ASN)
- DFAR clause references the MIL-STD 129 for implementation details
 - Definitions
 - Tag Data Standards
 - Tag Placement
 - Performance Requirements
- A Supplier Guide that contains information that details requirements for compliance is located at www.dodrfid.org/supplierguide.htm



Advance Shipment Notice (associate RFID/material)

Advance Shipment Notice

- EDI 856
- UDF/FTP
- Web page form

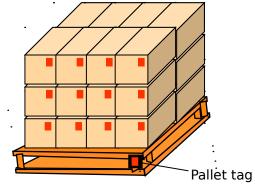
Manufacturers/
Suppliers



WAWF







Advance Shipment Notice 856 will be a transportation based transaction

- Pallet
 - External Container

-CLINS



Benefits across the supply chain

Manufacturer s/
Suppliers

Distribution Centers/Depots

POEs/PO Ds Transporta tion/Supply / Theater

Custome rs









Initial benefit areas

Improve Shipping/Receiving/Transportation Timeliness

Improve Shipping/Receiving/Transportation Accuracy

Improve Intransit and Asset Visibility

Reduced Costs

Other benefit areas Improved Inv Mat

Improved Inventory Mgt

Improved Labor Productivity

Pipeline Reduction

Reduced Pipeline

Reduce NISs

Speed Payment Process

liminates dup

Automated Receipt and Acceptance

Automated Rece

Reduce Shrinkage

Reduce Shrinkage

Demand/Information Flow



Next Steps

- Publish DFARS Rule for passive RFID
- Ready the Distribution Centers to receive tagged materiel
- Provide Education and Outreach to the Acquisition Community
- Perform Safety Certification Testing (HERO, HERF, HERP) for passive RFID
- Receive and Ship Tagged Materiel



Back to the Future

"I think the industry has sold itself on a program that offers so little return that it simply won't be worth the trouble and expense"

A Midwest Grocery Chain Executive discussing the potential of the barcode in 1975



For More Information

Visit our website:

www.dodrfid.org

- Policy Memorandum
- Supplier's Guide
- Passive RFID Implementation Plan
- Passive Tag/Advanced Shipment Notice data constructs
- Conferences and FAQs
- MILSTD 129
- Join us at our RFID Summit (Feb 9-10, 2005 in Washington DC)





UID vs RFID

| | UID | RFID |
|------------|----------------------------------|----------------------------|
| Marking | Item | Packaging |
| Technology | 2D Data Matrix | EPC RFID tag |
| Purpose | Life cycle data visibility | Supply chain receipt/track |
| Threshold | >\$5000, some | NONE |

Separate but integrated initiatives
Different technologies
Different business rules